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*Debra L. Hale*  
Debra L. Hale

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: : Kaltenbacher et al.  
Title : **FLUORESCENCE BASED LIQUID  
CORE WAVEGUIDE**  
Serial No. : 09/869,653  
Filed: : December 22, 1999  
Based on International Application No. : PCT/US99/30774  
International Filing Date: : 22 December 1999  
Attorney Docket No. : 21422/04022

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

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TRANSMITTAL OF SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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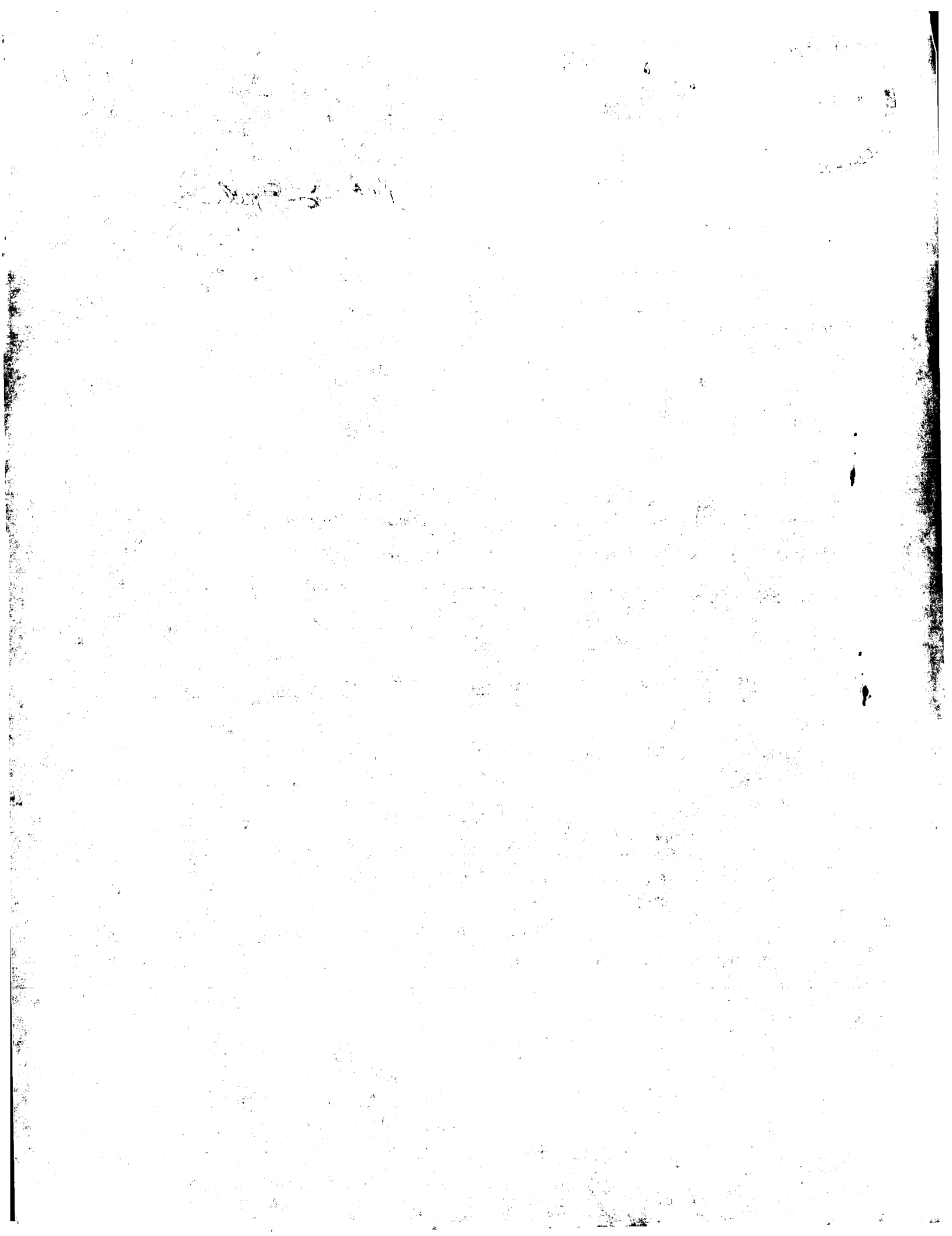
1. Fee Transmittal;
2. Supplemental Information Disclosure Statement;
3. Form PTO-1449;
4. Eight (8) References;
5. Check in the amount of \$180.00; and
6. Return Receipt Postcard.

If any additional fee is due with this Supplemental Information Disclosure Statement, please charge our Deposit Account No. 03-0172.

Respectfully submitted,

*John E. Miller*

John E. Miller, Reg. No. 26,206  
Telephone (216) 622-8679  
Facsimile (216) 241-0816



**JUL 14 2003**

PTO/SB/17 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# FREE TRANSMITTAL for FY 2003

*Patent fees are subject to annual revision*

<b>TOTAL AMOUNT OF PAYMENT</b>	<b>(\$)</b> 180.00
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**Complete if Known**

Application Number	09/869,653
I.A. Filing Date	December 22, 1999
First Named Inventor	Kaltenbacher et al.
Examiner Name	Jennifer Doan
Group Art Unit	2874
Attorney Docket No.	21422/04022

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

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03-0172

Deposit  
Account  
Name

Calfee, Halter & Griswold LLP

- ☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
- ☒ Applicant claims small entity status See 37 CFR 1.27

2. ☒ **Payment Enclosed:**  
☒ Check ☐ Credit Card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)	\$
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## 2. EXTRA CLAIM FEES

Total Claims		Extra Claims		Fee from below	Fee Paid
Independent Claims		- 2** =		x	=
Multiple Dependent		- 3** =		x	=
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

<b>SUBTOTAL (2)</b>	<b>\$</b>
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**\*\* or number previously paid, if greater; For Reissue, see above**

**FEE CALCULATION (continued)**


### 3. ADDITIONAL FEES

Fee Code	Large Entity Fee (\$)	Fee Code	Small Entity Fee (\$)	Fee Description
105	130	205	65	Surcharge - late filing fee or oath
127	50	227	25	Surcharge - late provisional filing fee or cover sheet
139	130	139	130	Non-English specification
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination
112	920*	112	920*	Requesting publication of SIR prior to Examiner action
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action
115	110	215	55	Extension for reply within first month
116	400	216	200	Extension for reply within second month
117	920	217	460	Extension for reply within third month
118	1,440	218	720	Extension for reply within fourth month
128	1,960	228	980	Extension for reply within fifth month
119	320	219	160	Notice of Appeal
120	320	220	160	Filing a brief in support of an appeal
121	280	221	140	Request for oral hearing
138	1,510	138	1,510	Petition to institute a public use proceeding
140	110	240	55	Petition to revive - unavoidable
141	1,280	241	640	Petition to revive - unintentional
142	1,280	242	640	Utility issue fee (or reissue)
143	460	243	230	Design issue fee
144	620	244	310	Plant issue fee
122	130	122	130	Petitions to the Commissioner
123	50	123	50	Processing fee under 37 CFR 1.17(q)
126	180	126	180	Submission of Information Disclosure Stmt
581	40	581	40	Recording each patent assignment per property (times number of properties)
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))
179	740	279	370	Request for Continued Examination (RCE)
169	900	169	900	Request for expedited examination of a design application

Other fee (specify)

SUBTOTAL (3)	(\$ 180
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**SUBMITTED BY**

Name (Print/Type)	John E. Miller	Registration No. (Attorney/Agent)	26,206	Telephone	(216) 622-8679
Signature				Date	July 9, 2003

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants hereby submit a Supplemental Information Disclosure Statement, together with a Form PTO-1449 and copies of all references listed therein. This Supplemental Statement is presented to include documents uncovered in a recent Examination Report for a corresponding European application. The fee required under 37 C.F.R. §1.97(c)(2) accompanies this submission.

An English language abstract of German Patent No. DE 3529488 is also enclosed. Pursuant to 37 C.F.R. §1.198(a)(3), German Patent No. DE 3529488 appears relevant because (1) it was recently cited in the corresponding European application and (2) its English abstract and figures look relevant. A copy of the Examination Report in the corresponding European Application is also enclosed.

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Deposit Account No. 03-0172.

Respectfully submitted,



---

John E. Miller, Reg. No. 26,206

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Facsimile (216) 241-0816





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Supplement for form 1449A/PTO

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	09/869,653
Filing Date	December 22, 1999
First Named Inventor	Eric Kaltenbacher et al.
Group Art Unit	2874
Examiner Name	Jennifer Doan
Attorney Docket Number	21422/04022

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		5,606,170		Saaski et al	02-25-1997	
		4,852,666		Hirschfeld	03-18-1986	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup> (if known)	Kind Code <sup>5</sup>				
		DE	35 29 488 A		Guenther	02-19-1987		
		EP	A-0 708 323		ALBION INSTR INC	04-24-1996		

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		LACKI ET AL: 'LIQUID CORE WAVEGUIDE AS A FLUORESCENCE SENSOR' EUROSensors. PROCEEDINGS OF THE EUROPEAN CONFERENCE ON SOLID-STATE TRANSDUCERS AND THE UK CONFERENCE ON SENSORS AND THEIR APPLICATIONS, vol. 1, 13. September 1988, pages 343-346.	
		ALTKORN R ET AL: 'LOW-LOSS LIQUID-CORE OPTICAL FIBER FOR LOW REFRACTIVE-INDEX LIQUIDS: FABRICATION, CHARACTERIZATION, AND APPLICATION IN RAMAN SPECTROSCOPY' APPLIED OPTICS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, VOL. 36, no. 34, 1. December 1997, pages 8992-8998.	
		FUJIWARA K ET AL: 'LIQUID CORE OPTICAL FIBER TOTAL REFLECTION CELL AS A COLORIMETRIC DETECTOR FOR FLOW INJECTION ANALYSIS' ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY, COLUMBUS, US, vol. 57, no. 6, 1985, pages 1012-1016.	
		ALTKORN R ET AL: 'WAVEGUIDE CAPILLARY CELL FOR LOW-REFRACTIVE-INDEX LIQUIDS' APPLIED SPECTROSCOPY, THE SOCIETY FOR APPLIED SPECTROSCOPY, BALTIMORE, US, vol. 51, no. 10, 1. October 1997, pages 1554-1558.	

Examiner  
SignatureDate  
Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English Language Translation is attached.

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